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PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of:

Attorney Docket No.: 2267.854US01

Charles W. Extrand et al.

Confirmation No.: 9136

Application No.: 10/652,586

Filed: August 29, 2003

Group Art Unit: 3753

For: MICROFLUIDIC DEVICE WITH ULTRAPHOBIC SURFACES

INFORMATION DISCLOSURE STATEMENT

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Pursuant to 37 C.F.R. § 1.56, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached Form PTO-1449. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This information is being filed before the mailing date of a first Office Action on the merits. No certification or fee is required.

Copies of the references were cited by or submitted to the Office in Patent Application No. 10/454,742, filed June 3, 2003, which is relied upon for an earlier filing date under 35 U.S.C. § 120. Thus, copies of these references are not attached. 37 C.F.R. § 1.98(d).

Respectfully submitted,

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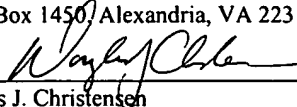
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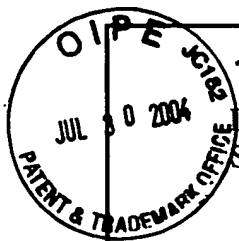
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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT
(Use as many sheets as necessary)

Complete if Known

Application Number	10/652,586
Filing Date	August 29, 2003
First Named Inventor	Charles W. Extrand
Art Unit	3753
Examiner Name	
Attorney Docket Number	2267.854US01

Sheet 1 of 7

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		Number-Kind Code ² (if known)		
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Sheet	2	of	7	Attorney Docket Number	2267.854US01
FOREIGN PATENT DOCUMENTS					
EXAMINER INITIAL [*]	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)			
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EXAMINER INITIAL [*]	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published			T ²
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<p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.</p> <p>This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450.</p> <p style="text-align: center;"><i>If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.</i></p>					

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NON PATENT LITERATURE DOCUMENTS					
EXAMINER INITIAL*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published			T ²
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NON PATENT LITERATURE DOCUMENTS

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		BRIAN D. REISS et al., <u>DNA-Directed Assembly of Anisotropic Nanoparticles on Lithographically Defined Surfaces and in Solution</u> , <i>Materials Research Society</i> , 2001, vol. 635, pp.C6.2.1-C6.2.6	
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		R. SHUTTLEWORTH et al., <u>The Spreading of a Liquid Over a Rough Solid</u> , February 23, 1948, pp. 16-22			
		J.F. OLIVER et al., <u>Resistance to Spreading of Liquids by Sharp Edges</u> ¹ , <i>Journal of Colloid and Interface Science</i> , May 1977, vol. 59, no. 3, pp. 568-579			
		T. ONDA et al., <u>Super-Water-Repellent Fractal Surfaces</u> , <i>The ACS Journal of Surfaces and Colloids</i> , May 1, 1996, vol. 12, no. 9, pp. 2125-2127			
		PHILLIP G. WAPNER et al., <u>Partial Wetting Phenomena on Nonplanar Surfaces and in Shaped Microchannels</u> , <i>Langmuir</i> , 2002, vol. 18, no. 4, pp. 1225-1230			
		JOONWON KIM et al., <u>Nanostructured Surfaces for Dramatic Reduction of Flow Resistance in Droplet-Based Microfluidics</u> , 2002, pp. 479-482			
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